AUTOMATED CHESS BOARD;

**Rod system(preferring this)**

**{**

[**Rod 10mm**](https://robu.in/product/1000-mm-long-chrome-plated-smooth-rod-diameter-10-mm/) **-length 2000mm**

**4 X** [**Rod slider 8mm**](https://robu.in/product/sc10uu-10-mm-linear-ball-bearing-slide-unit-cnc-3d-printer/)

**}**

**Transmission (ROD) :**

* **2** [**x GT2 Pulley, 20 teeth, 5mm bore**](https://robu.in/product/aluminum-gt2-timing-pulley-for-6mm-belt-20-tooth-5mm-bore-2pcs/)
* **2**[**m x GT2 Belt**](https://robu.in/product/2-meter-x-gt2-open-timing-belt-6mm-width/)

**PLYWOOD-depends:**

**Box :**

* [**1 x Foamboard - 462 x 462 x 5 mm**](https://www.indiamart.com/proddetail/5mm-pvc-foam-board-14189737288.html)
* [**1 x Foamboard - 462 x 462 x 10 mm**](https://www.indiamart.com/proddetail/pvc-foam-board-10mm-22828163355.html)
* [**2 x Foamboard - 462 x 80 x 10 mm**](https://www.indiamart.com/proddetail/pvc-foam-board-10mm-22828163355.html)
* [**2 x Foamboard - 442 x 80 x 10 mm**](https://www.indiamart.com/proddetail/pvc-foam-board-10mm-22828163355.html)

**\*\*Chess : {magnetic pieces are preferred}**

* **1 x** [**Chess pieces set - Staunton 3**](https://www.amazon.in/StonKraft-King-Height-Tournament-Professional/dp/B078XVDPD3/ref=pd_day0_2/259-9658424-6275954?pd_rd_w=IMLgK&pf_rd_p=ddf3065d-37bd-4713-89a2-28f76ee88912&pf_rd_r=R0Z9RB3JBWTBFRTD0EMV&pd_rd_r=00967b04-6e8d-4462-b1c9-260eed9c591a&pd_rd_wg=WHayB&pd_rd_i=B078XVDPD3&psc=1)
* **1 x Chessboard Sticker - Squares size : 37 x 37 mm-{*printing }***
* **32 x** [**Magnet, Dia 8 x 3 mm**](https://www.flipkart.com/gmt-40-pieces-8mm-x-3mm-neodymium-magnets-n52-disc-cylindrical-rare-earth-fridge-office-science-projects-magnet-pack-40-silver-multipurpose-office/p/itm57aa593f25732?pid=MANFXNZ22V2BFSGE&lid=LSTMANFXNZ22V2BFSGEXIO8XM&marketplace=FLIPKART&cmpid=content_magnet_8965229628_gmc)**\*\***

**Electronics :**

* **1 x** [**aurdino mega**](https://robu.in/product/original-arduino-mega-2560-atmega2560-mcu-rev3/)
* **2 x** [**Buy 28BYJ-4Stepper Motor with ULN2003 Motor Driver Online (robu.in)**](https://www.electronicscomp.com/nema17-1.6kg-cm-single-shaft-stepper-motor)
* **2 x** [**Stepper Motor Driver Carrier - Pololu - A4988**](https://robu.in/product/a4988-driver-stepper-motor-driver-standard-quality/)
* **2 x** [**Arcade button - Bore hole 23.5 mm**](https://www.tanotis.com/products/genuine-sparkfun-pushbutton-33mm-green?variant=19060424581&currency=INR&utm_medium=product_sync&utm_source=google&utm_content=sag_organic&utm_campaign=sag_organic&gclid=CjwKCAiAg6yRBhBNEiwAeVyL0A8VzffsXWYFVquREdV4mprnXq-MmcpIa_wWIMqRVS9xJiMkYCNgLRoCSOcQAvD_BwE)
* **1 x** [**Electromagnet - Adafruit - 3Kg Holding Force - P25/20**](https://robu.in/product/electric-sucker-electromagnet-kk-p20-15-12v/)
* **1 x** [**diode**](https://www.indiamart.com/proddetail/gto-freewheeling-diode-10776676155.html)**\*\***
* **1 x** [**MOSFET - TIP 120**](https://robu.in/product/irf3205-mosfet-pack-of-3/?gclid=CjwKCAiAg6yRBhBNEiwAeVyL0KximxcaBWLHr4GnvcQd2RK1rYlMww0kCG-qSdLg2A8Zio-JG65m_hoCcoQQAvD_BwE)**\*\***
* **2x** [**Rollers**](https://www.electronicscomp.com/bump-sensor-limit-switch-with-roller-lever?gclid=CjwKCAiAg6yRBhBNEiwAeVyL0ITxddeY6iqvQOBS-SpXdCObyTgqujnoI2oa0x-rgBXobVCrfIhDMRoCqsYQAvD_BwE)
* **64 x** [**Reed Switch - Dia 2 x 14.5 mm**](https://www.indiamart.com/proddetail/14-mm-reed-switch-23963020648.html?pos=4&kwd=reed%20switch%202x14&tags=A%7C%7C%7C%7C8227.221%7CPrice%7Cproxy%7C)[**robu**](https://robu.in/product/reed-switch-2-14mm-magnetic-control-switch-normally-open-contact/)
* **1 x** [**Resistor - 1K ohm**](https://www.amazon.in/Deepak-Enterprise-Carbon-Resistor-Resistance/dp/B01MSS8O3N/ref=sr_1_3?hvadid=72155527229496&hvbmt=be&hvdev=c&hvqmt=e&keywords=1k+ohm+resistor&qid=1646499929&sr=8-3)**\*\***
* **4 x** [**MUX breakout - SparkFun - CD74HC4067**](https://www.amazon.in/xcluma-Cd74Hc4067-16Channel-Multiplexer-Breakoutboard/dp/B07123D5TZ/ref=pd_lpo_1?pd_rd_i=B07123D5TZ&psc=1)
* [**Female Headers …//**](https://robu.in/product/1-27mm-2x40-pin-female-double-row-header-strip-pack-of-3/)
* **10 x** [**Screw Terminal**](https://robu.in/product/10-pin-2-54mm-pitch-pluggable-screw-terminal-block/)
* **3 x** [**Prototyping Board - 50 x 100 mm**](https://mecha4makers.co.nz/product/pcb-single-sided-prototyping-board-50-x-100mm/)
* **4 x** [**HE10 Connectors**](https://robu.in/product/10-pin-female-11mm-tall-stackable-header-connector/)**\*\***
* **8 x** [**Ribbon Cable - 8**](https://www.walmart.ca/en/ip/2-54mm-Pitch-2-x-8-Pin-IDC-Connector-Flat-Ribbon-Cable-Wire-30cm-Long/PRD70OAD0Y0O5JC)**{IF NOT THIS}**
* [**CABLE**](https://robu.in/product/8-pin-jst-xh-2-54mm-pitch-plug-and-socket-with-cable-3pcs/)
* [**Bluetooth module HC-05**](https://robu.in/product/hc-05-ttl-bluetooth-transceiver-module-without-button/)**\*\***